

2006 Raritan Watershed Enhancement Practices

Air Management Enhancements

Component	Unit Type	Unit Cost	Cost Type	Share Rate
EAM06 Manage windbreaks at 60% density or greater to reduce spray drift.	LF	\$1.00	FR	100
EAM07 Inject 100% of all manure applied to reduce odors.	Acre	\$2.00	FR	100
EAM40 Investigate various Greenhouse Gas (GHG)/Carbon sequestration scenarios by utilizing the Carbon Management Evaluation Tool for Voluntary Reporting (COMET-VR) online web tool.	Year	\$500.00	FR	100
EAM04 Use continuous no-till or strip till equipment to plant 100% of crop acreage, to reduce dust and hydrocarbon emissions.	Acre	\$5.00	FR	100

Energy Management Enhancements

Component	Unit Type	Unit Cost	Cost Type	Share Rate
EEM45 Soil Tillage Intensity Rating (STIR) is less than 60	Acre	\$0.50	FR	100
EEM48 5% energy reduction	BTU's	\$100.00	FR	100
EEM48 20% energy reduction	BTU's	\$500.00	FR	100
EEM48 10% energy reduction	BTU's	\$200.00	FR	100
EEM46 Use of renewable energy fuel (Biodiesel or Ethanol). Payments are made in \$25 increments for each 100 gallons actual biofuel used per year.	100 gal	\$25.00	FR	100
EEM45 Soil Tillage Intensity Rating (STIR) is less than 30	Acre	\$0.70	FR	100
EEM45 Soil Tillage Intensity Rating (STIR) is less than 15	Acre	\$0.90	FR	100
EEM44 Use of manure to supply at least 90% of nutrient needs of plants	Acre	\$1.10	FR	100
EEM43 Use of annual legumes in the crop rotation to reduce enrgy need for production of nitrogen.	Acre	\$0.10	FR	100
EEM42 Use of perennial legumes in the crop rotation to reduce enrgy need for production of nitrogen	Acre	\$0.70	FR	100
EEM41 Recycling of all used motor oil for tractors and lubricating oil for other farm equipment such as irrigation pumps or grain drying motors	Year	\$200.00	FR	100
EEM40 Energy Audit	Each	\$500.00	FR	100
EEM47 Renewable energy generation (solar, wind, water, geothermal, methane).	100 KWh	\$2.50	FR	100

Grazing Management Enhancements

Component	Unit Type	Unit Cost	Cost Type	Share Rate
EGM04 Manage access to riparian areas through proper fencing.	LF	\$1.00	FR	100
EGM07 Manage pasture systems so that clover or other legumes are maintained in the pastures without tillage.	Acre	\$12.50	FR	100
EGM11 Meet the additional criteria for pasture management and record keeping in the NJ Advanced Prescribed Grazing standard for Management Intensive Grazing (NJ-528-A)	Acre	\$40.00	FR	100

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Habitat Management Enhancements

Component	Unit Type	Unit Cost	Cost Type	Share Rate
EHM03 Defer all clipping, haying and mowing between April 15 and July 15 to preserve habitat for ground-nesting birds.	Acre	\$100.00	FR	100
EHM09 Manage enhanced field borders to a minimum width of 30' to provide beneficial habitat for insects and ground-nesting birds.	Acre	\$5.00	FR	100
EHM21 Manage grassed areas of the farm so that more than 3 native grass species per stand are maintained in order to provide vegetative diversity for wildlife.	Acre	\$15.00	FR	100

Nutrient Management Enhancements

Component	Unit Type	Unit Cost	Cost Type	Share Rate
ENM21 Plant a legume cover crop prior to November 15 in order to achieve adequate cover before winter, build soil organic matter, and provide a source of nitrogen for the subsequent crop.	Acre	\$30.00	FR	100
ENM22 Meet the additional soil testing, tissue testing, fertilizer application and record keeping criteria of the NJ Nutrient Management standard for Advanced Nutrient Management (NJ-590-A).	Acre	\$15.00	FR	100
ENM07 Manage nutrient applications according to individual field soil test results or plant tissue tests in order to reduce over applications of fertilizer.	Year	\$1,000.00	FR	100
ENM11 Use split applications, or use banding, side-dress or injection equipment to apply all nitrogen fertilizers to reduce nitrogen leaching and volatilization.	Acre	\$3.00	FR	100

Plant Management Enhancements

Component	Unit Type	Unit Cost	Cost Type	Share Rate
EPL41 Improve plant health and vigor by establishing or maintaining nectar producing plant corridors in field borders, vegetative barriers, contour buffer strips, waterways, shelterbelts, windbreaks, riparian forest and herbaceous buffers.	Acre	\$50.00	FR	100
EPL48 Improve plant health and vigor by utilizing intercropping to increase biodiversity and minimize the number and intensity of pest and disease outbreaks.	Acre	\$20.00	FR	100

Pest Management Enhancements

Component	Unit Type	Unit Cost	Cost Type	Share Rate
EPM03 Chemicals are specifically selected, utilized, and applied to reduce pesticide runoff and leaching potential.	Acre	\$10.00	FR	100
EPM60 Meet the additional criteria for monitoring insects, and follow the list of restricted pesticides as listed in the NJ Advanced Pest Management standard (NJ-595-A) on grain or forage crops.	Acre	\$14.00	FR	100
EPM60 Meet the additional criteria for monitoring insects, and follow the list of restricted pesticides as listed in the NJ Advanced Pest Management standard (NJ-595-A) on specialty or vegetable crops.	Acre	\$20.00	FR	100

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Soil Management Enhancements

<i>Component</i>	<i>Unit Type</i>	<i>Unit Cost</i>	<i>Cost Type</i>	<i>Share Rate</i>
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.9 to 1.2.	Acre	\$12.18	FR	100
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.5 or greater.	Acre	\$29.00	FR	100
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.1 to 2.5.	Acre	\$26.68	FR	100
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.9 to 2.1.	Acre	\$23.20	FR	100
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.1 to 1.5.	Acre	\$15.08	FR	100
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.6 to 1.0.	Acre	\$9.28	FR	100
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.5 to 0.8.	Acre	\$7.54	FR	100
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.1 to 0.5.	Acre	\$3.48	FR	100
ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.6 to 1.8.	Acre	\$19.72	FR	100

Water Management Enhancements

<i>Component</i>	<i>Unit Type</i>	<i>Unit Cost</i>	<i>Cost Type</i>	<i>Share Rate</i>
EWM42 Remote Monitoring of Irrigation Pumping Plants (farmer incorporates sensing and remote notification technology as an integral part of the water management system.)	Year	\$250.00	FR	100
EWM 41 Participate in a field poly tubing recycling program (participant agrees to participate in a formal annual recycling program for poly tubing including polypipe and drip tape products.	Year	\$300.00	FR	100
EWM40 Irrigation Enhancement Index Level 1 - 60 - 64%.	Acre	\$2.00	FR	100
EWM40 Irrigation Enhancement Index Level 2 - 65 - 69%.	Acre	\$4.00	FR	100
EWM40 Irrigation Enhancement Index Level 3 - 70 - 74%.	Acre	\$6.00	FR	100
EWM40 Irrigation Enhancement Index Level 4 - 75 - 79%.	Acre	\$8.00	FR	100
EWM40 Irrigation Enhancement Index Level 5 - 80 - 84%.	Acre	\$10.00	FR	100
EWM40 Irrigation Enhancement Index Level 6 - 85% or greater.	Acre	\$12.00	FR	100